

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A photoelectric imaging sensor comprising:  
a photo cathode converting an incident light into photoelectrons;  
a photomultiplier, kept vacuum inside thereof, intensifying photoelectrons converted by said photo cathode;  
an a two-dimensional output electrode array arranged in a plane comprising  
plate electrodes at which photoelectrons intensified by said photomultiplier ~~arrives~~  
arrive; and  
connecting means for electrically connecting said output electrode array to pick-up electrodes arranged outside said photomultiplier.
2. (Canceled)
3. (Previously Presented) The photoelectric imaging sensor according to Claim 1, wherein said connecting means are anisotropic conductive rubber or metal bulbs.
4. (Canceled)

5. (New) The photoelectric imaging sensor according to Claim 1, wherein said output electrode array comprises:

a plurality of plate electrodes in an array arrangement at a first side of the output electrode array;

another plurality of plate electrodes in an array arrangement at a second side of the output electrode array, each of the plate electrodes corresponding to one of the plate electrodes at the first side of the output electrode array; and

support electrodes electrically connecting each of the corresponding plate electrodes at the first side and at the second side.

6. (New) The photoelectric imaging sensor according to Claim 5, wherein said connecting means are anisotropic conductive rubber or metal bulbs.

7. (New) An output electrode array for a photoelectric imaging sensor using a photomultiplier, comprising:

a plurality of plate electrodes in an array arrangement at a first side of the output electrode array;

another plurality of plate electrodes in an array arrangement at a second side of the output electrode array, each of the plate electrodes corresponding to one of the plate electrodes at the first side of the output electrode array; and

support electrodes electrically connecting each of the corresponding plate electrodes at the first side and at the second side;

wherein the first side of the output electrode array is facing inside of the photomultiplier and the second side of the output electrode array is facing outside of the photomultiplier.